

ABSTRACT OF THE DISCLOSURE

The optical receiver includes: an optical input port for receiving WDM signals; a
5 transmittable-wavelength-variable filtering unit which transmits, of the received WDM signals, a light signal in a predetermined transmittable wavelength bandwidth with a desired central wavelength of λ_i ($i = 1$ to n ; n is an integer number greater than 2); an optical output port
10 which outputs the remaining light signals at wavelengths (λ_k) ($k = 1$ to n ; $k \neq i$) untransmittable through the transmittable-wavelength-variable filtering unit; and a control unit which controls the central wavelength so that the level of the light signal passing through the
15 transmittable-wavelength-variable filtering unit is the maximum. It is whereby possible to flexibly accommodate changes in number of channels combined in a WDM system, and to adaptively minimize ASE light leaking into the photoreceptor of the optical receiver even in a CWDM system
20 with wide channel spacing.